

# VIRTUAL CLASSROOM

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## ABSTRACT

*In the last few years, education has witnessed some advances in technologies involving computer based learning that change the methods of teaching and learning. Conventional classroom based teaching involves the delivery of course materials by the lecturer in a particular place at a defined time. Hence there is a constraint of time and place. A virtual classroom is a set of tools for delivering classroom, live over the Internet. The virtual class was used to replace face-to-face tutorials in the educational field. In this, students and instructors can communicate using voice, video, chat and whiteboard tools and also have facilities like application sharing, polling, breakout sessions. It allows the instructors and students to participate in real time lessons and discussions. Students can ask questions, and participate in discussions. Everything that can be done in a real classroom, can be done in a virtual classroom.*

**Keyword: - Virtual, Distance Learning etc.**

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## 1. Introduction

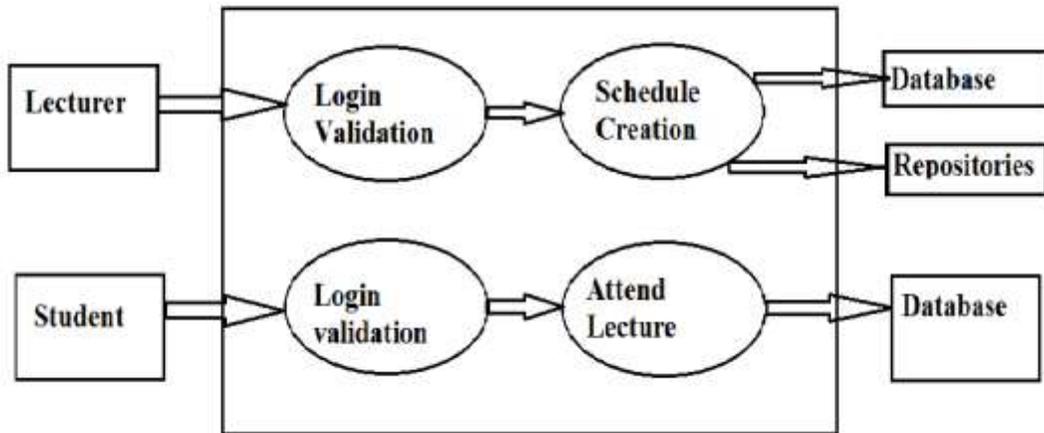
A virtual classroom is an online learning environment that contains all required course materials. A virtual classroom is a learning system that provides the same opportunities for the teaching and learning process, beyond the physical limits of the physical classroom. A virtual classroom not only makes course materials available to the learners, but also provides a live, contextual and interactive environment for them. Apart from these learner may also download previous lectures. In addition, teachers can control the learning and teaching process as they do in the traditional classroom.

### 1.1 System Analysis

In system analysis, overall observation of system is gives the information related to input and output. In our system, different modules are created such as student module, lecturer module. In student module, it contains the information about students login, session selection, query and downloading of study material. In lecturer module, it contains the schedule creation, lecture conduction, respond to query and lecturer also has facility to upload the study material.

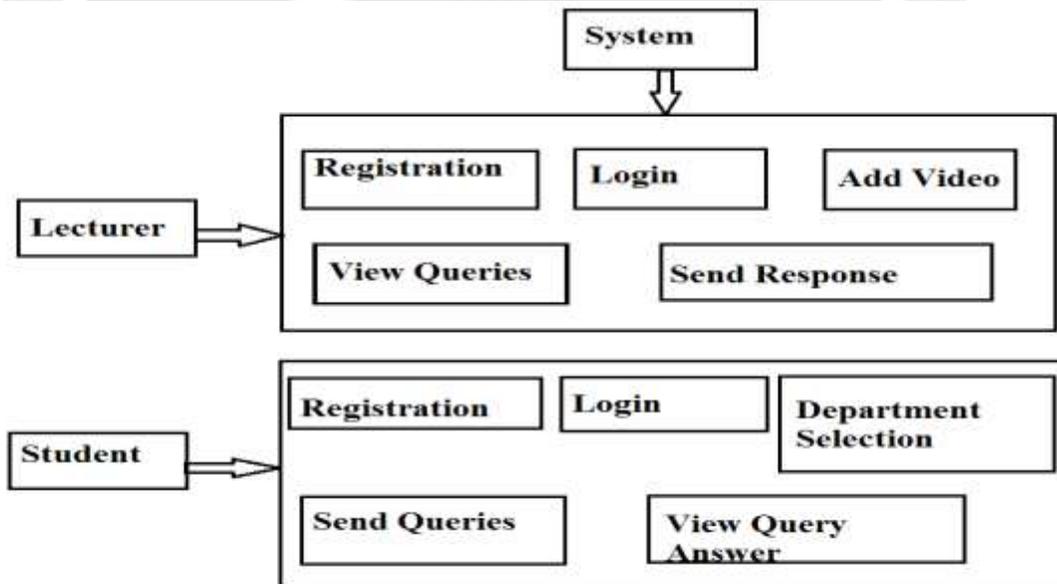
### 1.2 Data Flow

In Data flow diagram, shows interaction between lecturer, student and system. It includes different modules such as student module, teacher module, query storage module. It contains details of schedule.



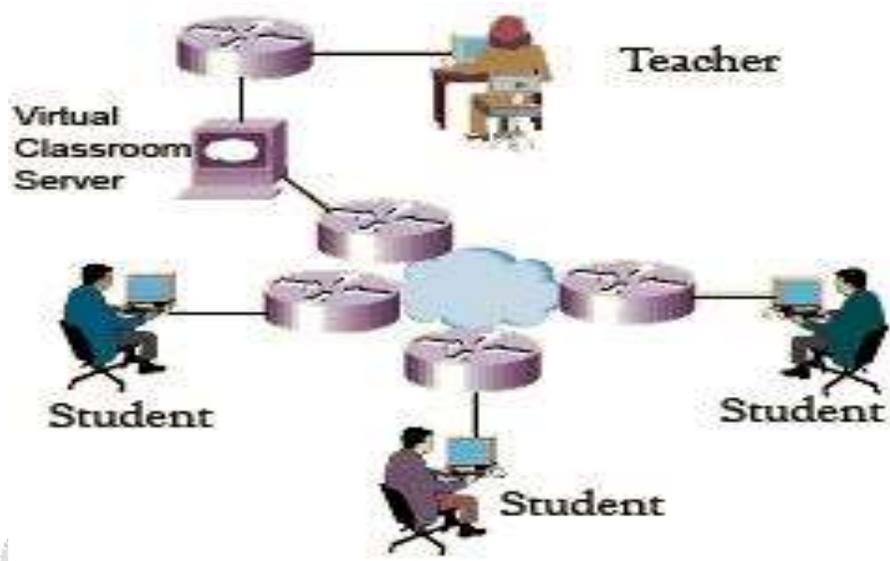
**2. System Architecture**

In system architecture, it shows how student and lecturer interact with system. Two different modules for both the user. In lecturer module, lecturer login in system and get access to handle the student module. And conduct the lecture as per schedule. In student module, student views session schedule and attend the lectures. The system has provided the facility to upload and download the study material. The study material uploaded by faculty and downloaded by student for future purpose. In session, student raise queries related to current lecture and lecturer will response to that queries. This querying and answering will recorded and student also ask query related that recorded session viewed by student. Both the user have separate login. After login of student, student views the schedule of session. He will select the session he want to attend . After lecturer login, lecturer will create a schedule for conducting lectures. Lecturers also upload study material for students. Queries raised by student is solved by teachers after lectures.



**Fig -1:** System Architecture

## 2.1 Virtual Classroom Environment



## 3. CONCLUSIONS

A virtual classroom architecture for classroom management will develop . It is helpful for the E-learning, distance learning . This proposed system is helpful for student to learn independently. In this proposed system student learn his class regularly with the help of distance learning .It will combine open learning techniques based on new technologies (in this case, the world wide web) with conventional classroom teaching. The main intention is to make the learning experience more flexible, stimulating and available around the clock and at any place with Internet facilities. The students will be able to navigate freely within the virtual classroom environment and enhance information resources used by the students.

## 4.REFERENCES

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